

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

Claims 1 and 2 (Cancelled).

Claim 3 (Cancelled).

4. (Previously Presented) A method according to Claim 22, wherein the displaying step includes the step of contiguously displaying the first, second and third dummy tables.

5. (Previously Presented) A method according to Claim 22, wherein:

the first dummy table includes only the main headers of the table columns: and

the second dummy table includes only the sub-headers of the sub-columns.

6. (Original) A method according to Claim 5, wherein the third dummy table includes only said multitude of data cells.

7. (Currently Amended) A system for displaying a table including a plurality of headers and a multitude of data cells holding a multitude of data items, each of the headers identifying contents of a set of the data cells, the system comprising:

means for creating one or more header dummy tables including one or more of said headers, and for creating a data dummy table including one or more of said data cells holding said multitude of data items, and for creating a logical linkage relationship between the hierarchical levels of the columns and headers to enable the presentation of the data to be manipulated; and

means for displaying the header and data dummy tables together at the same time and side-by-side at separate locations on the same display screen to form a single composite table on said display screen; and

wherein the header and data dummy tables are separately movable and positionable on the display device, and said single composite table shows all of said plurality of headers and all of said multitude of data items.

8. (Original) A system according to Claim 7, wherein:

the plurality of headers includes a first level of headers and a second level of sub-headers;

at least one header of the first level of headers has at least one sub-header of the second level of headers; and

the means for creating header dummy tables includes means for creating a first header dummy table including headers of the first level of headers and for creating a second header dummy table including sub-headers of the second level of headers.

9. (Original) A system according to Claim 8, wherein the means for creating header dummy tables includes means for creating a respective one first header dummy table for each of the headers of the first level that has at least one sub-header.

10. (Original) A system according to Claim 8, wherein:

the first header dummy table includes only headers of the first level of headers; and

the second header dummy table includes only sub-headers of the second level of headers.

11. (Original) A system according to Claim 10, wherein the data dummy table includes only data cells.

12. (Original) A system according to Claim 8, wherein the means for creating header dummy tables includes means for creating, for each of the headers in the first level of headers that has

one or more sub-headers in the second level of headers, a respective one second header dummy table to hold all of the sub-headers of said each of the headers of the first level of headers.

13. (Currently Amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for displaying a table including a plurality of headers and a multitude of data cells holding a multitude of data items, each of the headers identifying contents of a set of the data cells, said method steps comprising:

creating one or more header dummy tables including one or more of said headers;

creating a data dummy table including one or more of said data cells holding said multitude of data items, and creating a logical linkage relationship between the hierarchical levels of the columns and headers to enable the presentation of the data to be manipulated; and

displaying the header and data dummy tables together at the same time and side-by-side at separate locations on the same display screen to form a single composite table on said display screen; and

wherein the header and data dummy tables are separately movable and positionable on the display device, and said single composite table shows all of said plurality of headers and all of said multitude of data items.

14. (Original) A program storage device according to Claim 13, wherein:

the plurality of headers includes a first level of headers and a second level of sub-headers;

at least one header of the first level of headers has at least one sub-header of the second level of headers; and

the step of creating header dummy tables includes the steps of creating a first header dummy table including headers of the first level of headers and creating a second header dummy table including sub-headers of the second level of headers.

15. (Original) A program storage device according to Claim 14, wherein the step of creating header dummy tables includes creating a respective one first header dummy table for each of the headers of the first level that has at least one sub-header.

16. (Original) A program storage device according to Claim 14, wherein:

the first header dummy table includes only headers of the first level of headers; and

the second header dummy table includes only sub-headers of the second level of headers.

17. (Original) A program storage device according to Claim 16, wherein the data dummy table includes only data cells.

18. (Original) A program storage device according to Claim 14, wherein the step of creating header dummy tables includes the step of creating, for each of the headers in the first level of headers that has one or more sub-headers in the second level of headers, a respective one second header dummy table to hold all of the sub-headers of said each of the headers of the first level of headers.

19. (Currently Amended) A method of manipulating the display of a given data table having a plurality of columns, each column having an associated column heading and one or more associated data cells holding one or more data items, and at least one of the columns having a plurality of sub-columns, each of said sub-columns having an associated sub-column heading, the method comprising the steps of:

establishing one or more dummy header tables, said dummy header table having all of said headers and none of the data cells of the given table;

establishing a dummy data table, said dummy data table having all of the data cells and all of the data items of the given table and ~~[[one]]~~ none of the headers, and creating a logical linkage relationship between the hierarchical levels of the columns and headers to enable the presentation of the data to be manipulated;

displaying said one or more dummy header tables and said dummy data tables together at the same time and side-by-side on the same display screen to form a single composite table on said

display screen, wherein said one or more dummy header tables and said dummy data tables are separately moveable and positionable on said display screen, and said single composite table shows all of said plurality of headers and all of said multitude of data items; and

mapping said data cells of the dummy data table to the headers of the one or more dummy header tables to form a modified table.

20. (Previously Presented) A method according to Claim 19, wherein the mapping step includes the step of mapping the data cells of the dummy data tables to the headers of the one or more dummy header tables so that, in the modified table, each data cell is in a column having the header associated with said each data cell in the given table.

21. (Previously Presented) A method of re-displaying a display table having a grid of columns and rows, at least one of the columns having a plurality of sub-columns, each of the columns having a main header, and each of the sub-columns having a sub-header, said headers and said sub-headers forming first and second levels of headers, and wherein each of the columns and sub-columns includes a plurality of data cells aligned with a respective one of the main headers or sub-headers of the display table, the method comprising the steps of:

dividing the entire display table into a multitude of separately moveable dummy tables, including the steps of:

- i) forming a first of the dummy tables including all of the main headers, wherein said main headers are separately moveable within the first dummy table,
- ii) forming a second of the dummy tables including all of said sub-headers, wherein the sub-headers are separately moveable within the second dummy table, and
- iii) forming a third of the dummy tables including all of the columns of the display table, wherein the columns are separately moveable within the third dummy table;

positioning the first dummy table at a first location on a display screen, and moving the main headers within the first dummy table;

moving the second dummy table to a second location on the display screen adjacent to the first dummy table, with the sub-headers of the second dummy table aligned with the main header of the column that includes the sub-columns having said sub-headers; and

moving the third dummy table to a third location on the display screen adjacent the second dummy table, including the step of moving each of the columns of the third dummy table to a position aligned with the main header or sub-header of said each column of the third dummy table;

wherein said first, second and third dummy tables are displayed together at the same time and side-by-side at different locations on the same display screen and form a single composite table on said display screen.

22. (Previously Presented) A method according to Claim 21, wherein:

each of the columns and sub-columns of the display table has an identifying display index number;

each of the columns of the third dummy table has a respective one data location index number;
and

the step of moving the third dummy table includes the steps of:

- i) assigning each of the data location index numbers to one of the display index numbers, and
- ii) putting each of the columns of the third dummy table into the column or sub column of the display table having the display index number to which the data location index number of said each column of the third dummy table has been assigned.